

אנדרואיד

open source project

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- Git 1.5.4 or newer. You can find it at git-scm.com.

- (optional) Valgrind, a tool that will help you find memory leaks, stack corruption, array bounds overflows, etc. Download from valgrind.org.

Detailed instructions for Ubuntu 10.04+ follow.

Installing the JDK

The Sun JDK is no longer in Ubuntu's main package repository. In order to download it, you need to add the appropriate repository and indicate to the system which JDK should be used.

Java 6: for Gingerbread and newer

```
$ sudo add-apt-repository "deb http://archive.canonical.com/ lucid partner"
$ sudo add-apt-repository "deb-src http://archive.canonical.com/ubuntu lucid partner"
$ sudo apt-get update
$ sudo apt-get install sun-java6-jdk
```

Java 5: for Froyo and older

```
$ sudo add-apt-repository "deb http://archive.ubuntu.com/ubuntu dapper main multiverse"
$ sudo add-apt-repository "deb http://archive.ubuntu.com/ubuntu dapper-updates main multiverse"
$ sudo apt-get update
$ sudo apt-get install sun-java5-jdk
```

Installing required packages

To set up your development environment, install the following required packages:

```
$ sudo apt-get install git-core gnupg flex bison gperf build-essential \
zip curl zlib1g-dev libc6-dev lib32ncurses5-dev ia32-libs \
x11proto-core-dev libx11-dev lib32readline5-dev lib32z-dev \
libgl1-mesa-dev g++-multilib mingw32 tofrodos
```

Configuring USB Access

Under GNU/Linux systems (and specifically under Ubuntu systems), regular users can't directly access USB devices by default. The system needs to be configured to allow such access.

The recommended approach is to create a file `/etc/udev/rules.d/51-android.rules` (as the root user) and to copy the following lines in it, must be replaced by the actual username of the user who is authorized to access the phones over USB.

EXHIBIT

491

WIT:

Kandau

DATE:

4/14/11

J. SHEPHERD